AMENDMENTS TO THE SPECIFICATION

Please replace paragraph 15 with the following amended paragraph:

[0015] The present invention and its advantages will be better understood by referring to the following detailed description and the attached drawings in which:

Figure 1a illustrates a series of vibrator sweeps and listen times;
Figure 1b illustrates the superposition of the sweeps and listen times of Figure 1a to represent a cascaded sweep sequence;
Figure 1c illustrates a modified cascaded sweep data sequence from the data of Figure 1b;
Figure 1d illustrates a cascaded sweep data sequence after noise has been removed;
Figure 2 illustrates a flowchart of the present invention;
Figure 3 illustrates data from a sweep sequence showing an original sweep sequence panel, a panel showing data with noise removed according to the method of the present invention, and the difference of the original and data panel after noise removal;
Figure 4 illustrates data from a sweep sequence showing an original sweep sequence panel, a panel showing data after noise removal according to the method of the present invention, and the difference of the original and data panel after noise removal.
Figure 5 is a flowchart of a denoising process as applied to a modified cascaded sweep data sequence.

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